

Wenyuan Li

List of Publications by Year in descending order

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57
papers

2,798
citations

331670

21
h-index

276875

41
g-index

58
all docs

58
docs citations

58
times ranked

1826
citing authors

#	ARTICLE	IF	CITATIONS
1	Reliability Assessment of Electric Power Systems Using Monte Carlo Methods. , 1994, , .		1,091
2	Estimating wind speed probability distribution using kernel density method. Electric Power Systems Research, 2011, 81, 2139-2146.	3.6	161
3	Synergistic Operation of Electricity and Natural Gas Networks via ADMM. IEEE Transactions on Smart Grid, 2018, 9, 4555-4565.	9.0	152
4	Probabilistic Power Flow Analysis Based on the Stochastic Response Surface Method. IEEE Transactions on Power Systems, 2016, 31, 2307-2315.	6.5	131
5	Generation System Reliability Evaluation Incorporating Correlations of Wind Speeds With Different Distributions. IEEE Transactions on Power Systems, 2013, 28, 551-558.	6.5	122
6	Power System Risk Assessment Using a Hybrid Method of Fuzzy Set and Monte Carlo Simulation. IEEE Transactions on Power Systems, 2008, 23, 336-343.	6.5	115
7	Probabilistic Optimal Power Flow Considering Correlations of Wind Speeds Following Different Distributions. IEEE Transactions on Power Systems, 2014, 29, 1847-1854.	6.5	114
8	Incorporating multiple correlations among wind speeds, photovoltaic powers and bus loads in composite system reliability evaluation. Applied Energy, 2013, 110, 285-294.	10.1	77
9	Risk assessment of integrated electrical, natural gas and district heating systems considering solar thermal CHP plants and electric boilers. International Journal of Electrical Power and Energy Systems, 2018, 103, 277-287.	5.5	63
10	Probabilistic Power Flow Analysis of Power Systems Incorporating Tidal Current Generation. IEEE Transactions on Sustainable Energy, 2017, 8, 1195-1203.	8.8	48
11	Reliability Assessment of Integrated Energy Systems Considering Emergency Dispatch Based on Dynamic Optimal Energy Flow. IEEE Transactions on Sustainable Energy, 2022, 13, 290-301.	8.8	48
12	Extracting Rare Failure Events in Composite System Reliability Evaluation Via Subset Simulation. IEEE Transactions on Power Systems, 2015, 30, 753-762.	6.5	45
13	Probabilistic Power Flow for AC/VSC-MTDC Hybrid Grids Considering Rank Correlation Among Diverse Uncertainty Sources. IEEE Transactions on Power Systems, 2017, 32, 4035-4044.	6.5	41
14	Composite Power System Reliability Evaluation Based on Enhanced Sequential Cross-Entropy Monte Carlo Simulation. IEEE Transactions on Power Systems, 2019, 34, 3891-3901.	6.5	40
15	Incorporating a Condition Monitoring Based Aging Failure Model of a Circuit Breaker in Substation Reliability Assessment. IEEE Transactions on Power Systems, 2015, 30, 3407-3415.	6.5	39
16	Frequency Stability Enhancement of Integrated AC/VSC-MTDC Systems With Massive Infeed of Offshore Wind Generation. IEEE Transactions on Power Systems, 2018, 33, 5135-5146.	6.5	38
17	A Coordinated Planning Method for Micrositing of Tidal Current Turbines and Collector System Optimization in Tidal Current Farms. IEEE Transactions on Power Systems, 2019, 34, 292-302.	6.5	33
18	An efficient Nataf transformation based probabilistic power flow for high-dimensional correlated uncertainty sources in operation. International Journal of Electrical Power and Energy Systems, 2020, 116, 105543.	5.5	29

#	ARTICLE	IF	CITATIONS
19	Probabilistic Power Flow Analysis for Hybrid HVAC and LCC-VSC HVDC System. IEEE Access, 2019, 7, 142038-142052.	4.2	27
20	Limit preserving equivalent method of interconnected power systems based on transfer capability consistency. IET Generation, Transmission and Distribution, 2016, 10, 3547-3554.	2.5	25
21	A Static Equivalent Model of Natural Gas Network for Electricity-Gas Co-Optimization. IEEE Transactions on Sustainable Energy, 2020, 11, 1473-1482.	8.8	25
22	Framework of probabilistic power system planning. CSEE Journal of Power and Energy Systems, 2015, 1, 1-8.	1.1	24
23	Enhanced Cross Entropy Method for Composite Power System Reliability Evaluation. IEEE Transactions on Power Systems, 2019, 34, 3129-3139.	6.5	22
24	Tie-Line Power Transmission Region in a Hybrid Grid: Fast Characterization and Expansion Strategy. IEEE Transactions on Power Systems, 2020, 35, 2222-2231.	6.5	21
25	Nondetection Zone Analytics for Unintentional Islanding in a Distribution Grid Integrated With Distributed Energy Resources. IEEE Transactions on Sustainable Energy, 2019, 10, 214-225.	8.8	20
26	A RankBoost-Based Data-Driven Method to Determine Maintenance Priority of Circuit Breakers. IEEE Transactions on Power Delivery, 2018, 33, 1044-1053.	4.3	19
27	Tie-Line Security Region Considering Time Coupling. IEEE Transactions on Power Systems, 2021, 36, 1274-1284.	6.5	19
28	A Noncooperative Game-Based Approach for Microgrid Planning Considering Existing Interconnected and Clustered Microgrids on an Island. IEEE Transactions on Sustainable Energy, 2022, 13, 2064-2078.	8.8	19
29	Probabilistic Operational Reliability of Composite Power Systems Considering Multiple Meteorological Factors. IEEE Transactions on Power Systems, 2020, 35, 85-97.	6.5	18
30	Operational reliability and economy evaluation of reusing retired batteries in composite power systems. International Journal of Energy Research, 2020, 44, 3657-3673.	4.5	17
31	Long-Term Health Index Prediction for Power Asset Classes Based on Sequence Learning. IEEE Transactions on Power Delivery, 2022, 37, 197-207.	4.3	16
32	BC Hydro's Transmission Reliability Margin Assessment in Total Transfer Capability Calculations. IEEE Transactions on Power Systems, 2013, 28, 4796-4802.	6.5	13
33	Dynamic Var Reserve Assessment in Multi-Infeed LCC-HVDC Networks. IEEE Transactions on Power Systems, 2021, 36, 68-80.	6.5	12
34	Cross-Entropy-Based Composite System Reliability Evaluation Using Subset Simulation and Minimum Computational Burden Criterion. IEEE Transactions on Power Systems, 2021, 36, 5198-5209.	6.5	12
35	Application of Joint Raw Moments-Based Probabilistic Power Flow Analysis for Hybrid AC/VSC-MTDC Power Systems. IEEE Transactions on Power Systems, 2022, 37, 1399-1412.	6.5	10
36	Sufficient and necessary condition of sensitivity consistency in static equivalent methods. IET Generation, Transmission and Distribution, 2015, 9, 603-608.	2.5	9

#	ARTICLE	IF	CITATIONS
37	Identification and location of long-term voltage instability based on branch equivalent. IET Generation, Transmission and Distribution, 2014, 8, 46-54.	2.5	8
38	Equivalent model considering frequency characteristics and renewable uncertainties for probabilistic power flow. IET Generation, Transmission and Distribution, 2018, 12, 5939-5948.	2.5	7
39	Probabilistic Power Flow for Hybrid AC/DC Grids with Ninth-Order Polynomial Normal Transformation and Inherited Latin Hypercube Sampling. Energies, 2019, 12, 3088.	3.1	7
40	Dimension Reduction Based Non-Parametric Disaggregation for Dependence Modeling in Composite System Reliability Evaluation. IEEE Transactions on Power Systems, 2021, 36, 159-168.	6.5	7
41	Probabilistic Power Flow of AC/DC Hybrid Grids with Addressing Boundary Issue of Correlated Uncertainty Sources. IEEE Transactions on Sustainable Energy, 2022, , 1-1.	8.8	7
42	Internally Induced Branch-and-Cut Acceleration for Unit Commitment Based on Improvement of Upper Bound. IEEE Transactions on Power Systems, 2022, 37, 2455-2458.	6.5	6
43	Evaluating risk indices of weak lines and buses causing static voltage instability. , 2011, , .		5
44	Model-Driven Architecture of Extreme Learning Machine to Extract Power Flow Features. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4680-4690.	11.3	5
45	Transmission Expansion Planning With Feasible Region of Hydrogen Production From Water Electrolysis. IEEE Transactions on Industry Applications, 2022, 58, 2863-2874.	4.9	5
46	A Stochastic Response Surface Method Based Probabilistic Energy Flow Analysis Method for Integrated Electricity and Gas Systems. IEEE Transactions on Power Systems, 2022, 37, 2467-2470.	6.5	5
47	Reliability Assessment of Coordinated Urban Transportation and Power Distribution Systems Considering the Impact of Charging Lots. IEEE Access, 2020, 8, 30536-30547.	4.2	4
48	Equivalent Optimal Power Flow Method Considering Natural Gas Network Constraints. , 2018, , .		3
49	Study on Emergency Load Shedding of Hybrid AC/DC Receiving-End Power Grid with Stochastic, Static Characteristics-Dependent Load Model. Energies, 2019, 12, 3912.	3.1	3
50	Observability reliability evaluation in power systems considering data uncertainty. , 2015, , .		2
51	A spare strategy of circuit breakers considering aging failures. , 2016, , .		2
52	A radial-grouping-based planning method for electrical collector systems in tidal current generation farms. Renewable Energy, 2021, 165, 632-641.	8.9	2
53	Reliability evaluation based on equivalent method of sensitivity consistency and component particularity representation. , 2016, , .		1
54	A cross-entropy-based control variate method for power system reliability assessment. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
55	Reliability evaluation of EGIES with highly nonlinear modeling of gas system components. Electric Power Systems Research, 2021, 195, 107119.	3.6	1
56	Generation of in-Group Asset Condition Data for Power System Reliability Studies. IEEE Transactions on Power Delivery, 2022, 37, 2369-2379.	4.3	0
57	Coordinated optimizations of urban traffic and power distribution systems. International Transactions on Electrical Energy Systems, 2021, 31, e12853.	1.9	0